Device for generating a magnetic field designed to catalyse physical-chemical reactions

ABSTRACT

A device for generating a magnetic field moving in at least one field plane located in a fluid to be treated and in which the gradient of the vector product between the intensity of the magnetic field and its displacement velocity induces stereochemical deformations of the molecules of the treated fluid, which may be a limestone water or a fuel. Each field plane may have a first magnetic field generator such as a pair of coils (10, 10') and a second magnetic field generator such as a pair of coils (12, 12') forming an angle θ with the first generator, both being disposed at the periphery of the pipe (20) through which the fluid to be treated is flowing. At least one of the two field generators generates a magnetic field whose amplitude is variable over time so that the resultant is a magnetic field moving in the field plane having a variable amplitude and a direction moving at an angular velocity such as to obtain the highest possible gradient of the vector product.

FIGURE 1.